an optical fiber having a proximal end and a distal end, said optical fiber terminating at the proximal end in the laser connector and terminating at the distal end in the handpiece, said optical fiber forming a lenseless optical path for transmitting laser light from a laser source to an eye to be treated;

said optical fiber extending through the handpiece body and at least partially through the handpiece tip, said tip having a proximal end and a distal end, said tip also including a fluid path from the distal end thereof to the interior of the handpiece body;

said handpiece body having a fluid path in fluid communication with the fluid path of the tip, said handpiece body fluid path extending to the exterior of the handpiece, whereby fluid in the eye may flow through the tip and the handpiece body while laser light from the laser source is directed by the optical fiber into the eye.

2. (Amended) The laser delivery system as set forth in claim 1 wherein the handpiece body fluid path includes a cavity inside the handpiece body and a port connecting said cavity to the exterior of the handpiece, said cavity being larger in cross-section than the fluid path in the handpiece tip.

3. (Amended) A laser delivery system for ophthalmic surgery and the like comprising:

a handpiece having a handpiece body and a hollow tip of a size suitable for insertion into a human eye, said hollow tip extending distally from the handpiece body;

a laser connector for connection to a laser source;

an optical fiber having a proximal end and a distal end, said optical fiber terminating at the proximal end in the laser connector and terminating at the distal end in the handpiece, said optical fiber forming a lenseless optical path for transmitting laser light from a laser source to an eye to be treated;

said optical fiber extending at least partially through the handpiece tip, said tip having a proximal end and a distal end, said tip also including a fluid path from the distal end thereof to the interior of the handpiece body;

said handpiece body having a fluid path in fluid communication with the fluid path of the tip, said handpiece body fluid path extending to the exterior of the handpiece, whereby fluid in the eye may flow through the tip and the handpiece body while laser light from the laser source is directed by the optical fiber into the eye; and

[The laser delivery system as set forth in claim 1 further including] means for refluxing material drawn into [in] the fluid path from the eye back into the eye.

13. (Amended) The laser delivery system as set forth in claim 1 wherein the handpiece body fluid path includes a cavity inside the handpiece body, said cavity being larger in cross-section than the fluid path in the handpiece tip, a bore extending from the cavity to the exterior of the handpiece, and a tube for providing fluid communication between the bore and a suction source.

15. (Amended) The laser delivery system as set forth in claim 1 further including means for removably securing an intermediate portion of the optical fiber in a fixed position with respect to an operating field, said intermediate portion of the optical fiber being disposed exteriorly of the handpiece.

17. (Amended) A laser delivery system for ophthalmic surgery and the like comprising:

a handpiece having a handpiece body and a hollow tip of a size suitable for insertion into a human eye, said hollow tip extending distally from the handpiece body;

a laser connector for connection to a laser source;

an optical fiber having a proximal end and a distal end, said optical fiber terminating at the proximal end in the laser connector and terminating at the distal end in the handpiece, said optical fiber extending through the handpiece body and at least partially through the handpiece tip for transmitting laser light from a laser source to an eye to be treated; and

means for removably securing an intermediate portion of the optical fiber in a fixed position with respect to an operating field, said intermediate portion of the optical fiber being disposed exteriorly of the handpiece.

20. (Amended) The laser delivery system as set forth in claim 17 wherein [the optical fiber extends at least partially through the handpiece tip] said tip has a proximal end and a distal end, said tip also including a fluid path from the distal end thereof to the interior of the handpiece body, and wherein